No. of Printed Pages: 3

MANE-001

Maximum Marks: 100

PTO

MASTERS IN ANTHROPOLOGY (MAAN)

Term-End Examination

00548

Time: 3 hours

MANE-001

June, 2015

MANE-001: HUMAN GENETICS

Note: Answer any five questions. Choose at least two questions from each section. All questions carry equal marks. The word limit for 20 marks questions is 500 words and for 10 marks questions is 250 words. SECTION A 1. What is Human Genetics? Briefly examine the different branches of Human Genetics. 20 2. What is Mitosis? Briefly discuss the various stages of cell division with suitable diagrams. 20 3. Discuss in brief different types of chromosomal aberrations. 20 4. Examine briefly the Inborn Errors of Metabolism in Man, with examples. 20

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- **5.** Write short notes on any two of the following: 10+10=20
 - (a) X-linked Inheritance
 - (b) Fluorescence in situ Hybridization (FISH)
 - (c) Inbreeding
 - (d) Abnormal Haemoglobins

SECTION B

6.	Briefly comment on the structure and features of DNA.	20
7.	What is Genetic Counselling? Briefly discuss the various steps involved in genetic counselling.	20
8.	What is Ethics in Genetic research? Discuss Ethical, Legal and Social Issues [ELSI] in Genetic research.	20
9.	What is Phenylthiocarbamide (PTC)? Describe the procedure for PTC tasting ability through serial dilution method.	20
10.	Write short notes on any two of the following:	=20
	(a) Human Genome Project	
	(b) Bioinformatics	
	(c) Genetic Epidemiology	
	(d) Polymorphism	